Ground/Air Task Oriented Radar (cont.)

Description

The Ground/Air Task Oriented Radar (G/ATOR) has four incremental deliveries. G/ATOR is an expeditionary, HMMWV-based single material solution to fill the Multi-Role Radar System (MRRS) and Ground Weapon Locating Radar's (GWLR) operational requirements.

Increment I is a medium-range Air Surveillance radar used to detect and track aircraft, cruise missiles, and Unmanned Aerial Vehicles (UAVs). The system will serve as a gap-filler radar by providing three-dimensional coverage of those areas out of view of the AN/TPS-59(V)3 due to line-of-sight limitations. The radar is intended to replace all the missions currently associated with the AN/TPS-63 and AN/MPQ-62 radars.

Increment II provides the next-generation ground weapon locating radar. The G/ATOR will replace the AN/TPQ-46A as the Marine Corps' hostile indirect fires target locating system. The primary mission of the G/ATOR, employed in the counter fire role, is to locate mortar, artillery, and rocket threats and provide accurate location information to friendly counter fire weapons. The secondary role of the counter fire G/ATOR is to provide "did hit" data to friendly weapon systems for adjust fire and battle damage assessment. Increment III will improve upon Increment I's air mission capabilities.

Enhancements include: Advance Combat ID circuitry and software (Non Cooperative Target Recognition), integrated Cooperative Engagement Capability/ Composite Tracking Network, advanced ECCM capabilities (Decoys), and Radar Environmental Simulator, as well as Integrated Data Environment capabilities. Any hardware improvements associated with Increment III will be incorporated into radars delivered under Increment II, as well. Increment IV will add Air Traffic Control functionality and replace the AN/TPS-79 radar.

Operational Impact

G/ATOR will have the responsiveness needed to detect, identify, and track enhanced, low-level air-breathing targets, as well as indirect fire threats during the execution of all Expeditionary Maneuver Warfare (EMW) operations. In addition, the radar will be capable of cueing and reporting on targets detected within its coverage limits to designated air and ground command-and-control agencies. The reduced logistical footprint of the radar will enhance the capabilities of MACCS and artillery regiments in support of all phases of MAGTF operations. It will possess the mobility required to keep pace with supported maneuver elements and will complement the Marine Corps' long-range radar, the AN/TPS- 59(V)3, by providing accurate low-level tracks. The ground and air mission capabilities provided in this single system gives an operational flexibility previously unheard of to the MAGTF commander.

Program Status

G/ATOR Increment I is in pre-Milestone B Concept Development, which is currently scheduled for 1st Quarter FY 05. IOC is scheduled for 4th Quarter FY 2010, with FOC in FY 2016.

Procurement Profile:	FY 05	FY 06
Quantity:	0	0
Developer/Manufacturer:	TBD	